Selection of a Pipeline Alignment

Seattle Public Utilities

Evaluate risks, costs, and impacts that are **not** common to the two alternatives.

Risks: Chance that project costs or impacts will be larger than planned, such as damage to an adjacent utility during construction.

Costs: Most probable project cost and worst-case project cost.

Impacts: Intensity and duration of impacts to community and environment during construction, such as disruption of traffic, loss of parking, noise and business disruption. Community feedback on impacts is important.

Alternative with the best overall combination will be selected.

Trenchless/Open Cut Significant Differences

Seattle Public Utilities

Considerations		Open Cut Alignment	Trenchless Alignment
Risk		• Damage to/replacement of underground utilities	• Unanticipated below ground obstruction
Estimated construction cost		• $5 – 7 million	• $5 – 7 million
Impacts	**Truck trips**	• 340 estimated weekly trips (varies by area) • 3,400 estimated total trips	• 50 estimated weekly trips (varies by area) • 1,250 estimated total trips
	Traffic and parking	• Daytime road closure for entire block for up to 4 weeks • Daytime parking restrictions for entire block for up to 4 weeks (some nighttime parking restrictions for equipment/ staging)	• Daytime road closures near each shaft for up to 6-8 weeks • Daytime parking restrictions near each shaft for up to 6-8 weeks (some nighttime parking restrictions for equipment/ staging)
	Business disruption	• Construction will occur on E Madison Street for approximately 2 weeks* • Impacts may include: - Traffic delays - Lane and parking restrictions - Driveway access restrictions	• Construction will cross under E Madison Street* • Minimal impacts
	Noise, dust and vibration	• Daytime noise, dust and vibration for entire block for up to 4 weeks	• Daytime noise and dust at shafts for up to 6-8 weeks • Daytime vibration between shafts for up to 6-8 weeks

* Localized stormwater improvements will need to be implemented on E Madison Street regardless of which alignment is chosen.